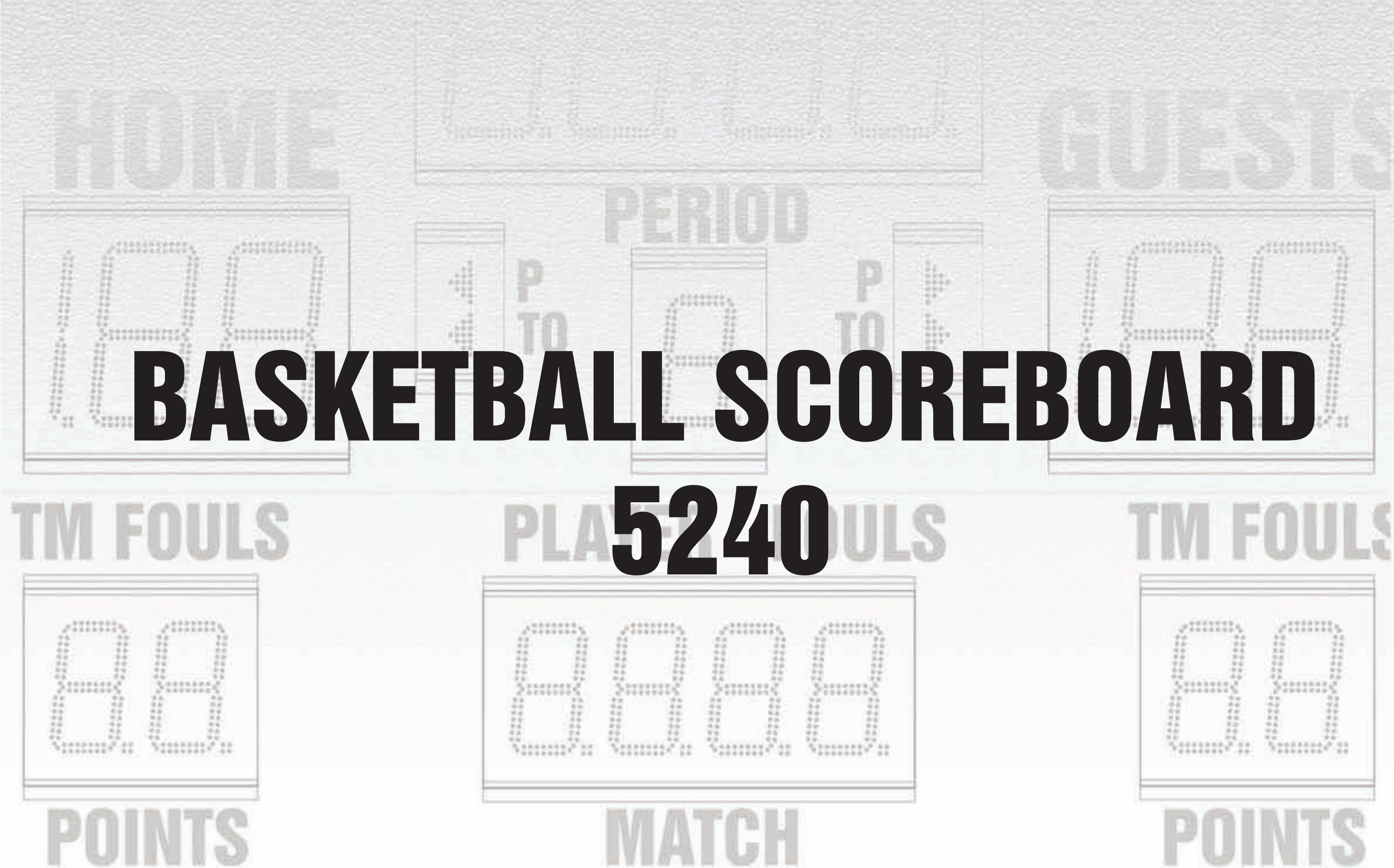
Colorado Display Systems

SCOREBOARDS

Electric Drawings and ISC-85X Operator Instructions



BASKETBALL SCOREBOARD 5240

Colorado Display Systems
1551 E 11th Street, Loveland, CO 80537 • 970-667-1000 • Fax: 970-667-1032 • www.coloradotime.com

Introduction

Congratulations on the purchase of your new electronic scoreboard. Your scoreboard is state of the art and designed for easy installation. This instruction booklet will provide you with general information on installing your scoreboard along with detailed information regarding your particular model. If further information is required please contact your CDS sales representative at 970-667-1000.

Service and Customer Information

In the event service is required for your scoreboard or if you wish to order replacement parts please contact your CDS sales representative at 970-667-1000.

To aid in your discussions, we suggest that you record the following information for reference:

MODEL NUMBER: ______________________________

INSTALLATION DATE: ______________________________

CDS SALES
REPRESENTATIVE: ______________________________

CONTACT
INFORMATION: ______________________________

CONTACT
PRODUCT
SERIAL NUMBERS: ______________________________

____

____

____

____

____

Indoor Scoreboards

Your scoreboard will require a 120 VAC, 60 Hz, grounded receptacle located within 5 feet of the top-centre of the scoreboard. Optional 230VAC, 60Hz, is also available. Typically the outlet will be a dedicated 15 Amp circuit. Refer to the model specific information provided in this package for the exact current load for your scoreboard. FIGURE 1 illustrates a generic installation including a controller. Seek the service of a qualified electrician to ensure the electrical installation meets all local electrical codes. CDS assumes no responsibilities for installations done by others.

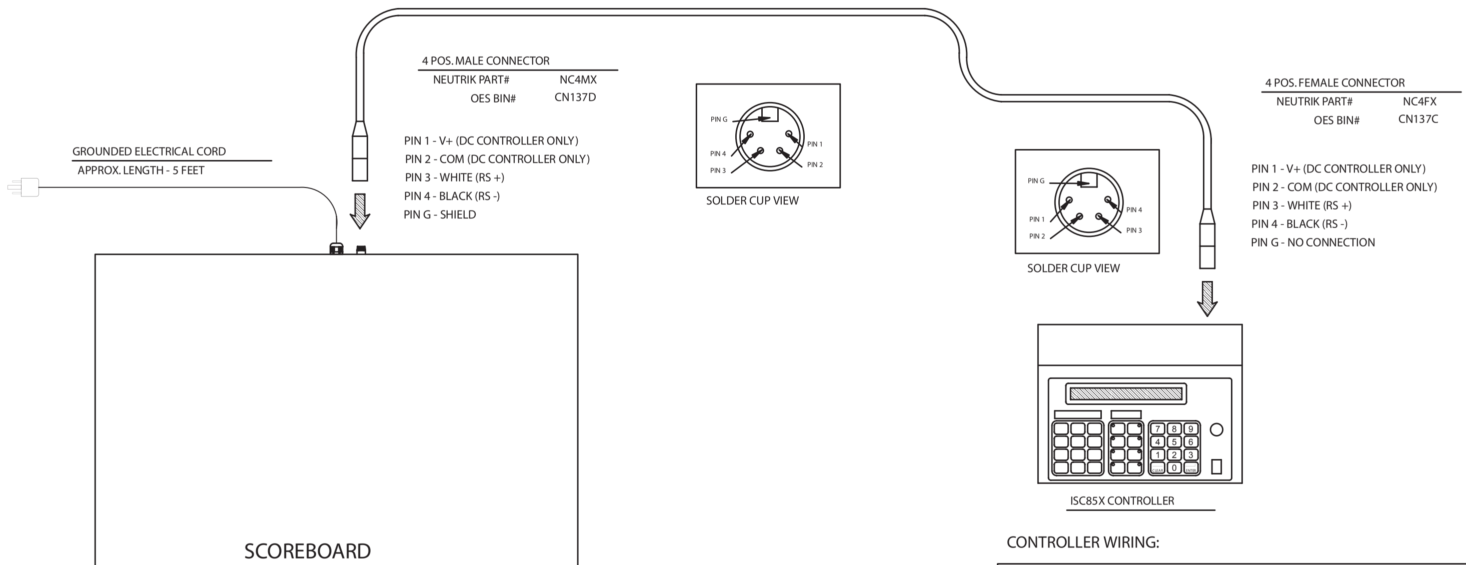
NOTE: On scoreboards with the cULus mark, the scoreboard does not come equipped with a power cord as these units must be permanently wired in.

Data cabling for the scoreboard is available in standard lengths (connectors factory installed), or as a kit for custom lengths (connectors installed on site). See the DATA CABLING section for more information.

Wall mounting is the preferred method of installation. When determining the installation location, ensure the scoreboard is NOT hung from a non-rigid support. The scoreboard is shipped with mounting brackets which are located on the backside of the enclosure. The brackets are rotated to prevent damage during shipping. Remove and re-install the brackets so that the mounting holes are exposed past the edge of the scoreboard. Lifting eyebolts are provided on the top of the scoreboard to facilitate lifting of the unit to its final installation location. Using appropriate equipment, lift and secure the scoreboard to the wall. The type of fasteners selected should be suitable for the type of wall construction and have sufficient capacity to support the scoreboard. CDS recommends using 3/8" fasteners. Detailed information regarding mounting locations and fasteners recommendations for your scoreboard model is provided in the documentation attached.

GENERIC INDOOR INSTALLATION

REVISION	DESCRIPTION	AUTH.	DATE	APVD
A	INITIAL DESIGN		05/20/03	



CONTROLLER WIRING:

CONNECT CONTROLLER DATA WIRE AS PER
PIN OUTS DETAILED ABOVE.

DC CONTROLLER RECEIVES POWER FROM SCOREBOARD
AC AND RF CONTROLLERS WILL REQUIRE AN 120VAC
RECEPTACLE NEAR CONTROLLER LOCATION.

SCOREBOARD WIRING:

->ELECTRICAL: 15A, 120VAC/230VAC, 60Hz, GROUNDED RECEPTACLE
LOCATED WITHIN 5 FEET OF SCOREBOARD'S TOP EDGE.
REFER TO MODEL SPECIFIC DOCUMENTION FOR EXACT CURRENT LOAD
->CONTROLLER DATA: SHIELDED, 2 TWISTED PAIR, 24 GUAGE DATA WIRE
AVAILABLE PRE-ASSEMBLED IN STANDARD LENGTHS OR IN KIT FORM
FOR CUSTOM LENGTHS
ALL WIRING LOCATED ON TOP CENTRE OF SCOREBOARD.

SEEK THE SERVICE OF A QUALIFIED ELECTRICIAN TO ENSURE ALL
WIRING MEETS APPLICABLE ELECTRICAL CODES.

APPROVED BY:
CHECKED BY:
THIRD ANGLE PROJECTIONS

OES, Inc.
4056 Blakie Road, London, ON N6L 1P7
Tel. (519) 652-5833
Fax. (519) 652-3795
Email oes@oes-inc.com

DESCRIPTION: OES ELECTRONIC SCOREBOARDS GENERIC OUTDOOR INSTALLATION

SIZE	FILENAME	INIT DRAWING DATE	REV
B	800-INSTALL-002	05/20/2003	A
	USAGE: INFORMATION ONLY		

SCALE	DRAWN BY	PAGE
N/A	JPG	1 OF 1

Installation

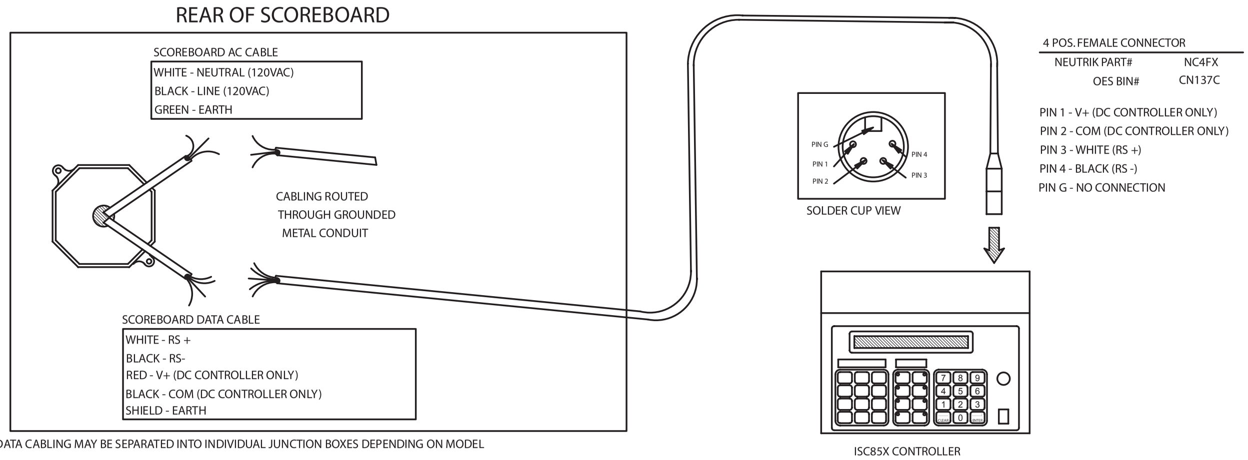
Outdoor Scoreboards

Your scoreboard will require a 120 VAC, 60 Hz, grounded electrical feed. Typically the feed will be a dedicated 20 Amp circuit. Optional 230VAC, 60Hz, is also available. Refer to the model specific information provided in this package for the exact current load for your scoreboard. FIGURE 2 illustrates a generic installation including a controller. CDS recommends using ONLY grounded metal conduit. Seek the service of a qualified electrician to ensure the electrical installation meets all local electrical codes. CDS assumes no responsibilities for installations done by others. Data cabling for the scoreboard is available as a kit for installation with the grounded conduit (connectors installed on site). See the DATA CABLING for more information.

Pole mounting is the preferred method of installation. Seek the service of a qualified contractor to ensure the structure meets all local building codes. Any information provided by CDS is for INFORMATION USE ONLY. The scoreboard is shipped with mounting brackets which will require installation prior to mounting the scoreboard. All necessary hardware required to mount the brackets to the scoreboard is provided with your new scoreboard. Lifting eyebolts are provided on the top of the scoreboard to facilitate lifting of the unit to its final installation location. Using appropriate equipment, lift and secure the scoreboard to the structure. The type of fasteners selected should be suitable for the type of construction and have sufficient capacity to support the scoreboard. CDS recommends using ½", grade 8 fasteners. Detailed information regarding mounting locations and fastener recommendations for your scoreboard model is provided in the documentation attached.

GENERIC OUTDOOR INSTALLATION

REVISION	DESCRIPTION	AUTH.	DATE	APVD
A	INITIAL DESIGN		05/20/03	



AC AND DATA CABLING MAY BE SEPARATED INTO INDIVIDUAL JUNCTION BOXES DEPENDING ON MODEL

SCOREBOARD WIRING:

RECOMMEND GROUNDED METAL CONDUIT FOR ALL WIRING.
->ELECTRICAL: 120VAC/230VAC, 60Hz, DEDICATED CIRCUIT
REFER TO MODEL SPECIFIC DOCUMENTATION FOR
EXACT CURRENT LOAD
->CONTROLLER DATA: SHIELDED, 2 TWISTED PAIR, 24 GUAGE DATA WIRE
ALL WIRING LOCATED WITHIN WEATHERPROOF ALUMINUM JUNCTION BOX
LOCATED ON REAR OF SCOREBOARD.

SEEK THE SERVICE OF A QUALIFIED ELECTRICIAN TO ENSURE ALL
WIRING MEETS APPLICABLE ELECTRICAL CODES.

CONTROLLER WIRING:

CONNECT CONTROLLER DATA WIRE AS PER
PINOUTS DETAILED ABOVE.

DC CONTOLLER RECIEVES POWER FROM SCOREBOARD
AC AND RF CONTROLLERS WILL REQUIRE A 120VAC
RECEPTACLE NEAR CONTROLLER LOCATION.

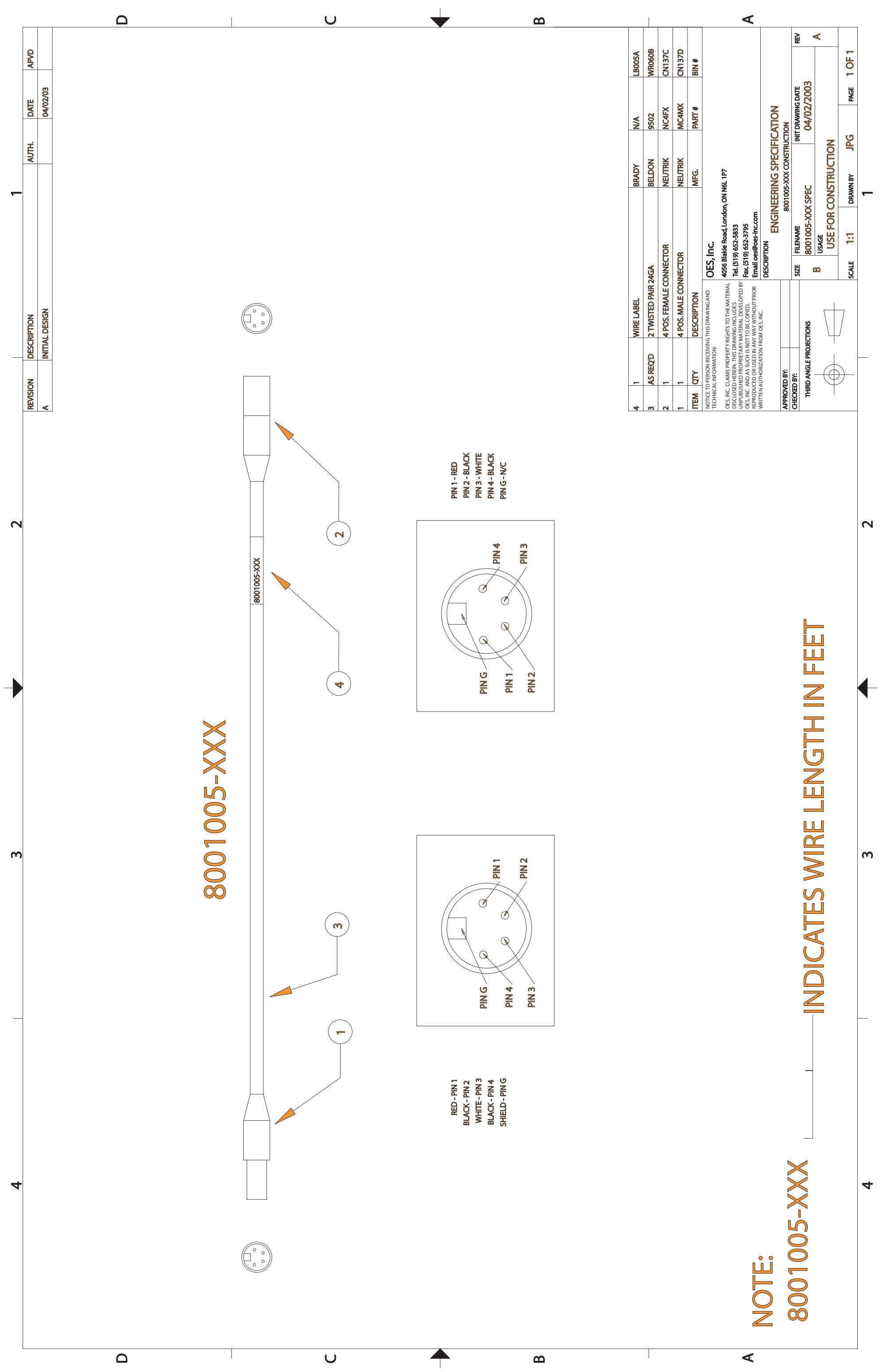
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4056 Blakie Road, London, ON N6L 1P7
Tel. (519) 652-5833
Fax. (519) 652-3795
Email oes@oes-inc.com

APPROVED BY:
CHECKED BY:
THIRD ANGLE PROJECTIONS

DESCRIPTION: OES ELECTRONIC SCOREBOARDS GENERIC OUTDOOR INSTALLATION

SIZE	FILENAME	INIT DRAWING DATE	REV
B	800-INSTALL-001	05/20/2003	A
	USAGE: INFORMATION ONLY		

SCALE	DRAWN BY	PAGE
N/A	JPG	1 OF 1


8001005-XXX
8001005-XXX
RED - PIN 1
BLACK - PIN 2
WHITE - PIN 3
BLACK - PIN 4
SHIELD - PIN G
PIN 1 - RED
PIN 2 - BLACK
PIN 3 - WHITE
PIN 4 - BLACK
PIN G - N/C
PIN G
PIN 4
PIN 3
PIN 1
PIN 2
PIN G
PIN 1
PIN 2
PIN 4
PIN 3
REVISION
DESCRIPTION
AUTH.
DATE
APVD
A
INITIAL DESIGN
04/02/03
ITEM
QTY
DESCRIPTION
MFG.
PART #
BIN #
4
1
WIRE LABEL
BRADY
N/A
LB005A
3
AS REQ'D
2 TWISTED PAIR 24GA
BELDON
9502
WR060B
2
1
4 POS. FEMALE CONNECTOR
NEUTRIK
NC4FX
CN137C
1
1
4 POS. MALE CONNECTOR
NEUTRIK
MC4MX
CN137D
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DESCRIPTION
ENGINEERING SPECIFICATION
8001005-XXX CONSTRUCTION
APPROVED BY:
CHECKED BY:
THIRD ANGLE PROJECTIONS
SIZE
B
FILENAME
8001005-XXX SPEC
INIT DRAWING DATE
04/02/2003
REV
A
USAGE
USE FOR CONSTRUCTION
SCALE
1:1
DRAWN BY
JPG
PAGE
1 OF 1
NOTE:
8001005-XXX
INDICATES WIRE LENGTH IN FEET

Installation

Data Cabling

Data cabling can be purchased as a pre-assembled cable in set lengths or as a kit to be assembled on site. Pre-assembled cables are available in multiple lengths of 25 feet (25ft, 50ft, 75ft, etc). Cable kits can be purchased in any desired length. If cabling is to be routed through conduit, CDS recommends purchasing the cable kit. FIGURE 3 outlines connection details for both. Your CDS sales representative can help you select the appropriate cabling choice for your particular installation.

Installation Accessories

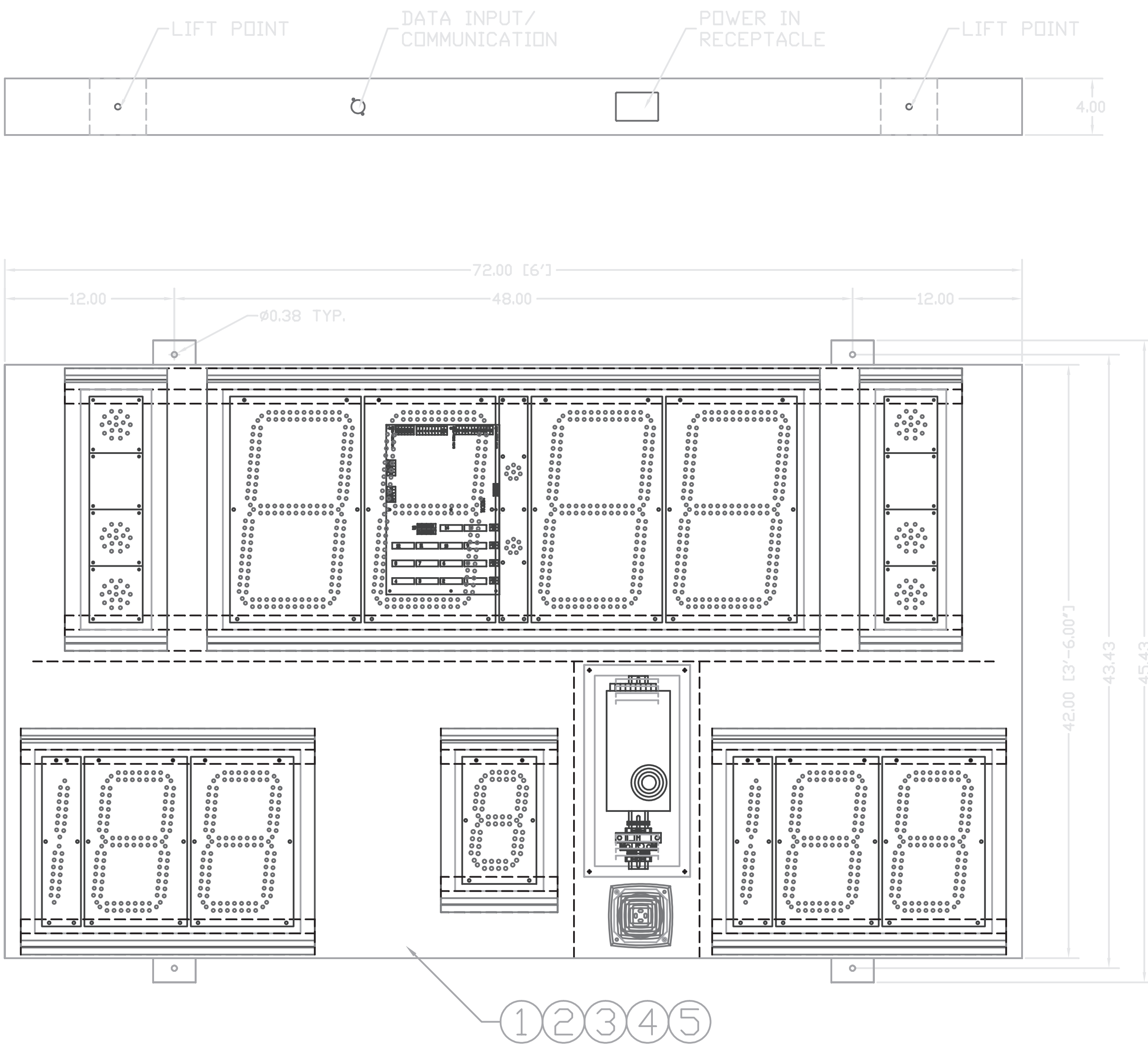
A wide range of accessories are available to you and your facility to ease installation and protect your scoreboard investment. Products such as junction boxes and connector boxes are available to provide a professional appearance to any installation. RF radios are available for both indoor and outdoor scoreboards to eliminate costly controller cabling. Safety screens are available to protect the scoreboard from accidental impact. Protective bags are available for controller storage and transport while not in use. Please contact your CDS sales representative for more information on available accessories for your scoreboard.

Model Specific Documentation

The following pages are specific to your scoreboard model and include details on internal wiring, replacement parts, and specific mounting details. If any further information is required please contact your CDS sales representative at 970-667-1000.

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REVISION	DESCRIPTION	AUTH.	DATE	APVD
D	INITIAL DESIGN	RD	12/17/04	



NOTE:

ALL RAILS TO BE RIVETED IN PLACE
AS PER DWG BEFORE POWDER COATING
ALL BACK PLATES TO BE FASTENED IN PLACE
AS PER DWG BEFORE POWDER COATING
COMPLETE UNIT TO BE POWDER TO SUIT PO# SPECIFICATION
ALL MOUNTING PLATES TO BE RIVETED IN PLACE

PLEASE NOTE
MOUNTING TABS AND LOUVER PLATE TO BE POWDER COATED
ALONG W/ SCOREBOARD

ITEM	QTY	DESCRIPTION	DWG.		REV.
5	1	CAP	830-5240-016	1OF2	D
4	1	DIGIT RAIL DETAIL	830-5240-013	1OF1	D
3	1	PLEXI RAIL DETAIL	830-5240-012	1OF1	D
2	1	BACK FACE DETAIL	830-5240-011	2OF2	D
1	1	OPENING DETAILS	830-5240-011	1OF2	D

APPROVED BY:

CHECKED BY:

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Fax: (519) 652-3795
Email: oes@oes-inc.com

NOTICE TO PERSON RECEIVING THIS DRAWING AND TECHNICAL INFORMATION:

DESCRIPTION
OES ELECTRONIC SCOREBOARD
5240 SCOREBOARD
5240 ASSEMBLY

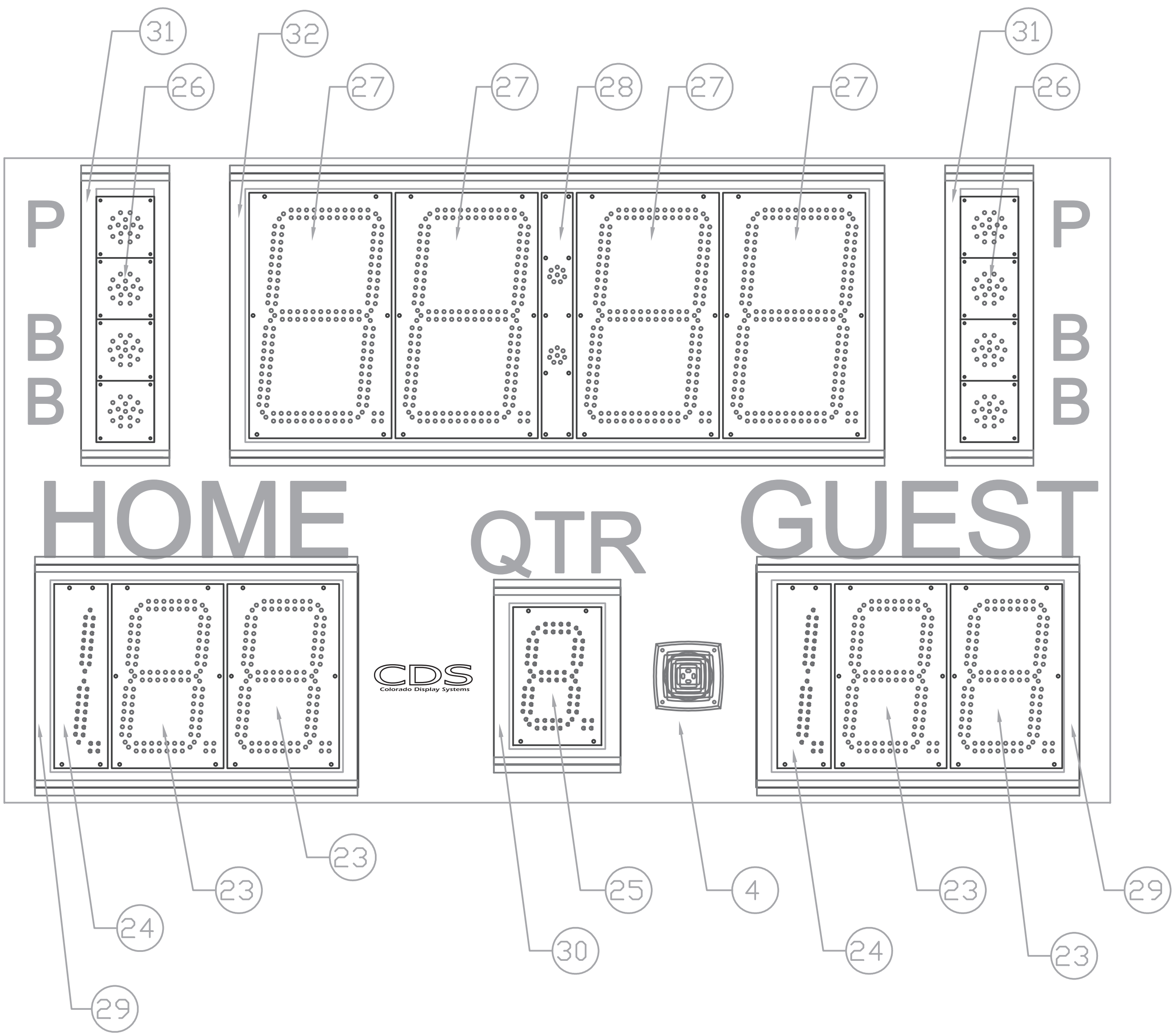
TOLERANCE INFORMATION
Dimensions are in Inches
Fractional ±1/16"
One Place Decimals ±0.050"
Two Place Decimals ±0.005"
Three Place Decimals ± 0.002"
Angular ±30'

THIRD ANGLE PROJECTIONS

SIZE: B
FILENAME: 830-5240-010
INIT DRAWING DATE: 10/19/04
REV: D
USAGE: USE FOR CONSTRUCTION
SCALE: 1:8
DRAWN BY: RD
PAGE 1 OF 1

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REVISION	DESCRIPTION	AUTH.	DATE	APVD
A	INITIAL DESIGN		06/07/02	
B	UPDATE		02/17/03	



ITEM	QTY	DESCRIPTION	MFG.	PART #	BIN #
32	1	17.5" X 42" PLEXI - SPEC #2423 RED	N/A	N/A	N/A
31	2	5.5" X 17.5" PLEXI - SPEC #2423 RED	N/A	N/A	N/A
30	1	8.25" X 10.5" PLEXI - SPEC #2423 RED	N/A	N/A	N/A
29	2	13.5" X 21" PLEXI - SPEC #2423 RED	N/A	N/A	N/A
28	1	14" LED COLON	OES	OES55014C	N/A
27	4	14" LED DIGIT (8)	OES	OES550148	N/A
26	2	LED INDICATOR BOARD	OES	OES5501	N/A
25	1	7" LED DIGIT (8)	OES	OES550078	N/A
24	2	10" LED DIGIT (1)	OES	OES550101	N/A
23	4	10" LED DIGIT (8)	OES	OES550108	N/A
4	1	HORN	EDWARDS	870P-N5	HW182A

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Email oes@oes-inc.com

APPROVED BY:
CHECKED BY:
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DESCRIPTION: OES ELECTRONIC SCOREBOARD MODEL 5240 - ASSEMBLY DETAILS

SIZE	FILENAME	INIT DRAWING DATE	REV
B	830-5240-003	06/07/2002	B
	USAGE: NOT FOR CONSTRUCTION		
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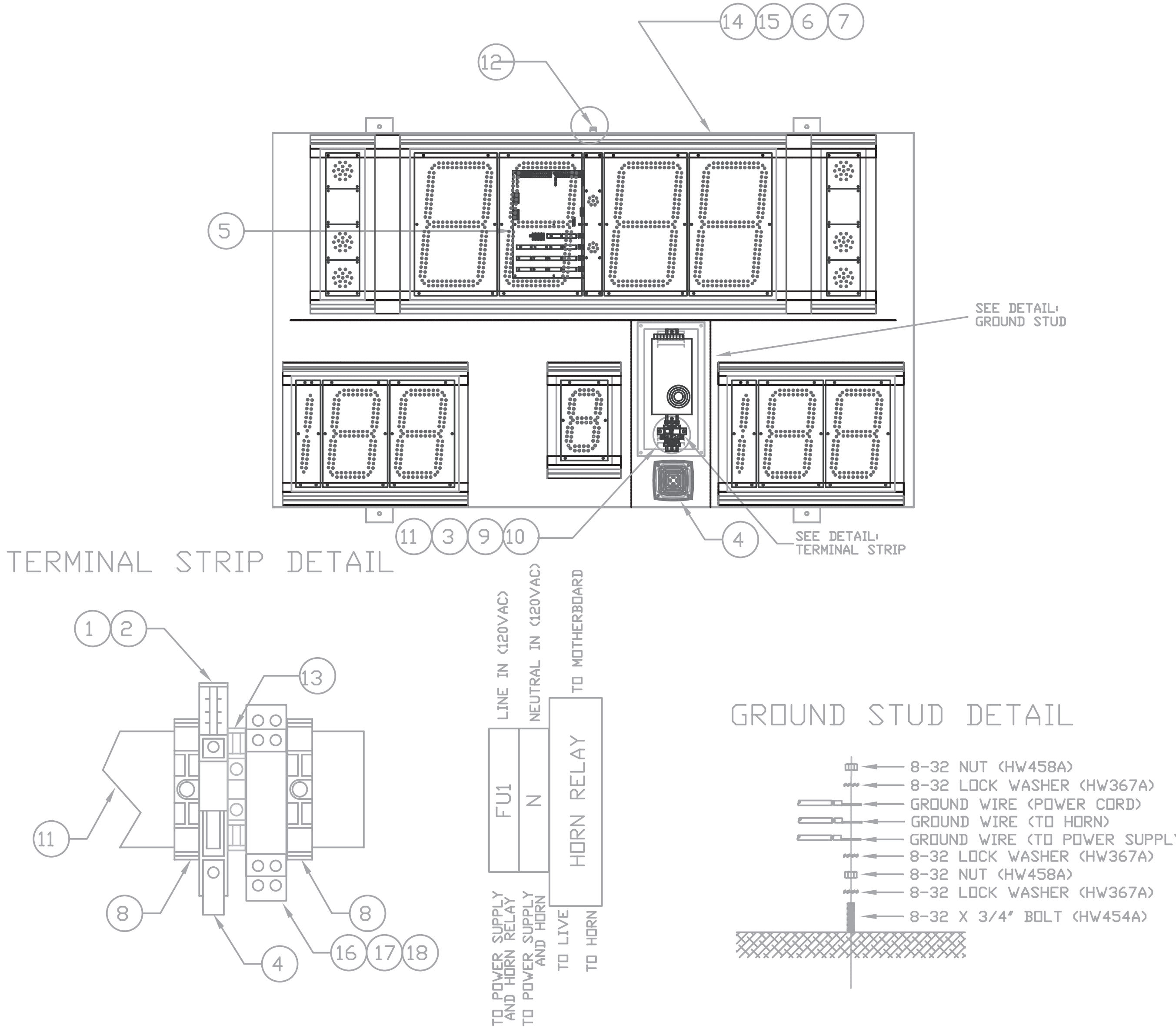
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REVISION	DESCRIPTION	AUTH.	DATE	APVD
A	INITIAL DESIGN		06/05/02	
B	UPDATE FUSE HOLDER AND DES8011		04/10/03	
C	UL CHANGES		05/06/05	

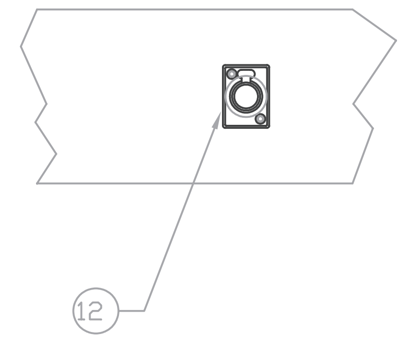
COMPONENT LOCATION DETAIL

TERMINAL STRIP DETAIL

GROUND STUD DETAIL



CABLE ENTRY DETAIL



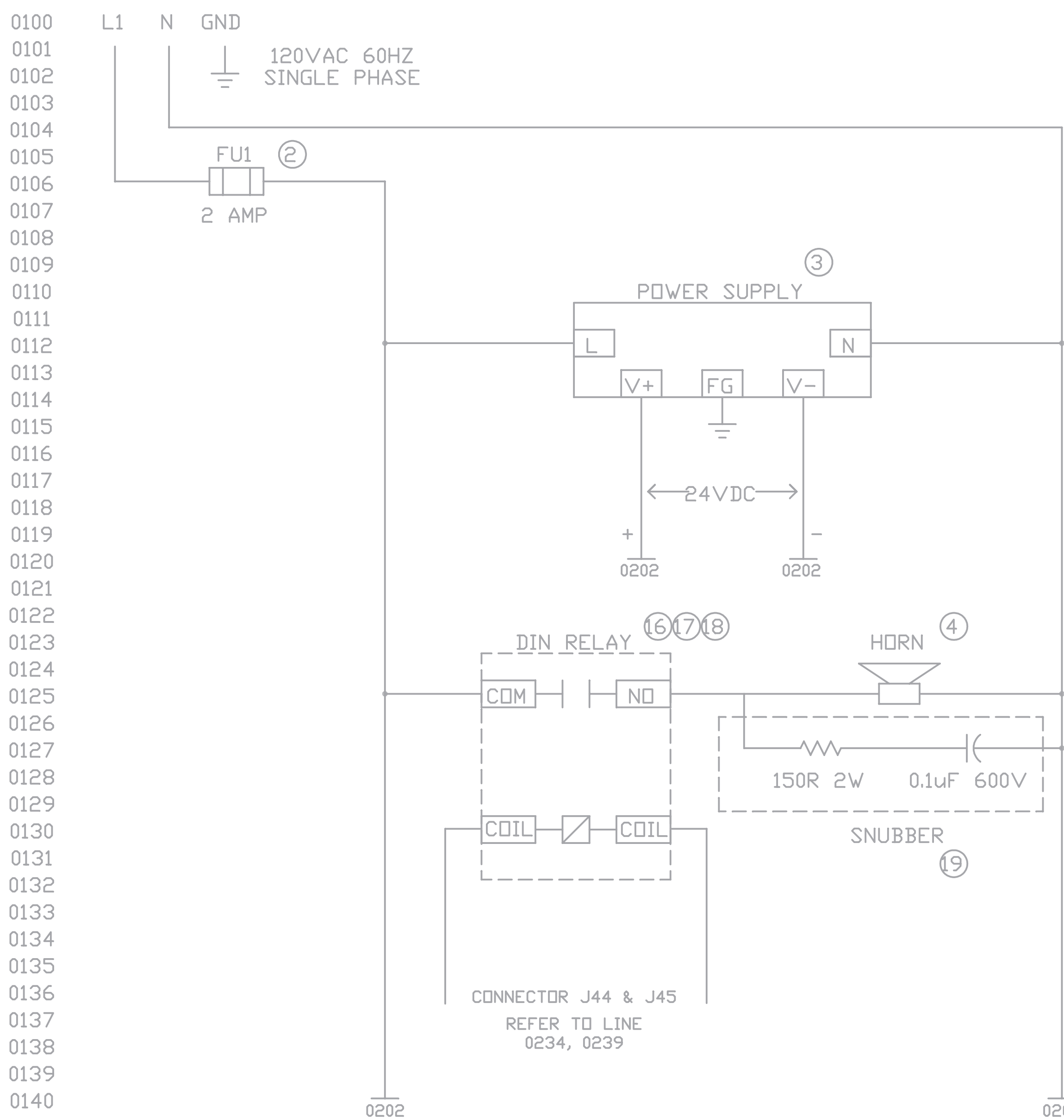
ITEM	QTY	DESCRIPTION	MFG.	PART #	BIN #
18	1	RELAY SOCKET CLIP	TYCO	3-1393161-3	SW061B
17	1	RELAY SOCKET	TYCO	2-1419108-1	SW061A
16	1	RELAY	OMRON	G2RL-1-E-DC24	SW029A
15	1	JUNCTION BOX COVER PLATE	N/A	N/A	HW200E
14	1	JUNCTION BOX	N/A	N/A	HW207A
13	1	DIN TERMINAL (WHITE)	WEILAND	WK4	CN534A
12	1	CONTROLLER CONNECTOR	NEUTRIK	NC4FP-1	CN137A
11	AS REQ'D	DIN RAIL	ANY	N/A	CN534D
10	1	DIN RAIL CLIP	N/A	N/A	CN540B
9	1	MOUNTING BRACKET	N/A	N/A	CN540A
8	2	END BLOCK	WEILAND	9708/S35	CN534C
7	1	RETAINING NUT	N/A	N/A	HW037A
6	1	SKIN TIGHT	N/A	N/A	HW037D
5	1	MOTHERBOARD	DES	DES8011	N/A
4	1	HORN	EDWARDS	870P-N5	HW182A
3	1	150W 24VDC POWER SUPPLY	MEAN WELL	S-150-24	XF411A
2	1	2A SLOW BLO FUSE	LITTELFUSE	313002	FS081A
1	1	FUSE HOLDER	WEILAND	57.904.6355.0	CN535A

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Tel. (519) 652-5833
Fax. (519) 652-3795
Email oes@oes-inc.com

APPROVED BY:	DESCRIPTION: DES ELECTRONIC SCOREBOARD COMPONENT DETAILS		
CHECKED BY:	SIZE: B	FILENAME: 830-5240-001	INIT DRAWING DATE: 06/05/2001
THIRD ANGLE PROJECTIONS	USAGE: NOT FOR CONSTRUCTION		REV: C
	SCALE 1:1	DRAWN BY JPG	PAGE 1 OF 1

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REVISION	DESCRIPTION	AUTH.	DATE	APVD
A	INITIAL DESIGN		06/06/02	
B	ADDED CONTROLLER CONNECTOR DETAIL		06/18/02	
C	UPDATE		02/17/03	
E	UL CHANGES		05/06/05	

ITEM	DESCRIPTION	MFG.	PART #	BIN #
19	SNUBBER	OES	SNUBBER	SNUBBER
18	RELAY SOCKET CLIP	TYCO	1-1415038-1	SW061B
17	RELAY SOCKET	TYCO	2-1419108-2	SW061A
16	RELAY	OMRON	G2RL-1-E-DC24	SW029A
4	HORN	EDWARDS	870P-N5	HW182A
3	150W 24VDC POWER SUPPLY	MEAN WELL	SF-150-24	XF411A
2	250V 2A SLO BLOW FUSE	LITTELFUSE	313003	FS081A

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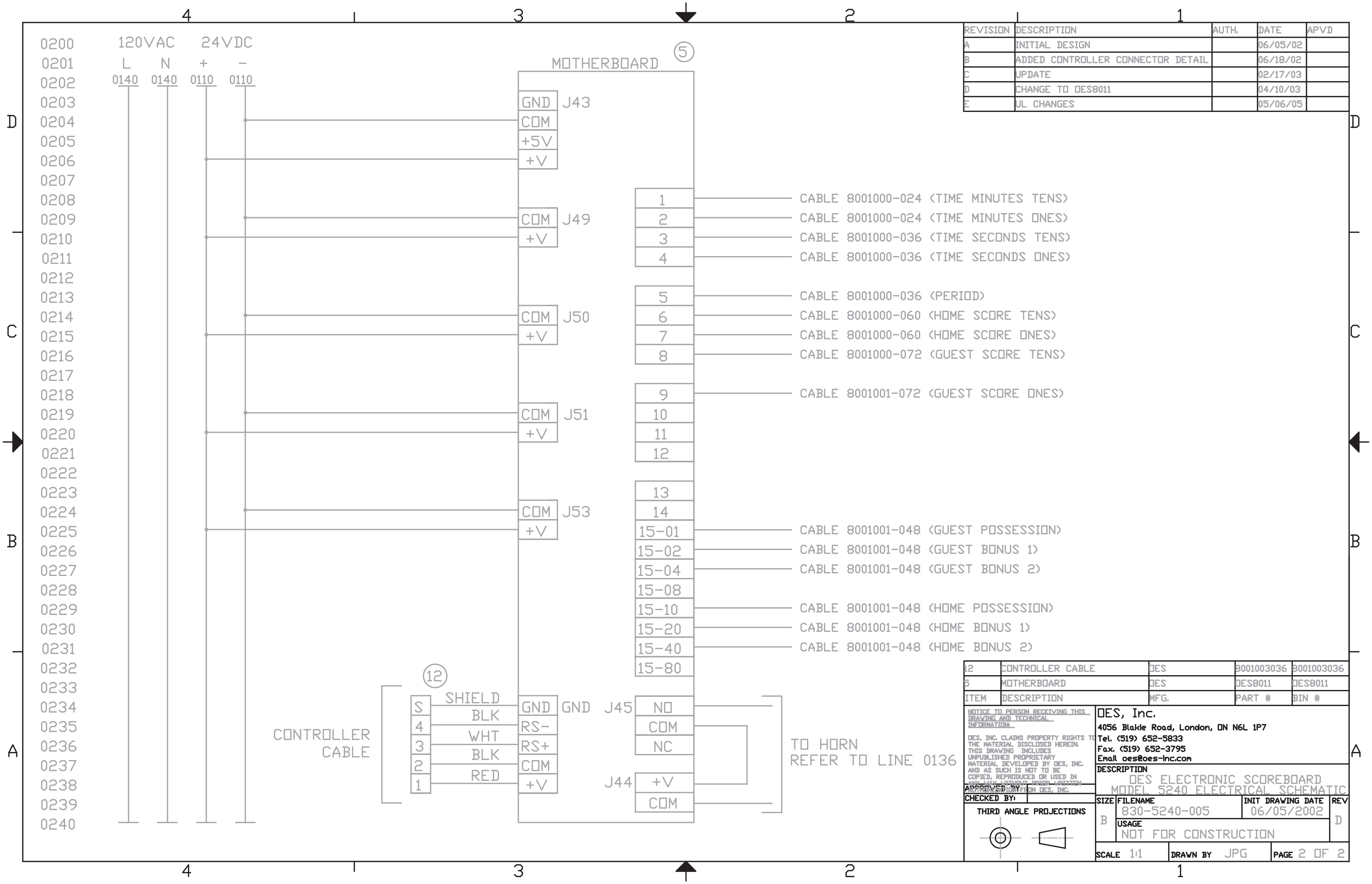
APPROVED BY:
CHECKED BY:
THIRD ANGLE PROJECTIONS

DESCRIPTION: OES ELECTRONIC SCOREBOARD MODEL 5240 ELECTRICAL SCHEMATIC

SIZE: B | FILENAME: 830-5240-005 | INIT DRAWING DATE: 06/05/2002 | REV: C

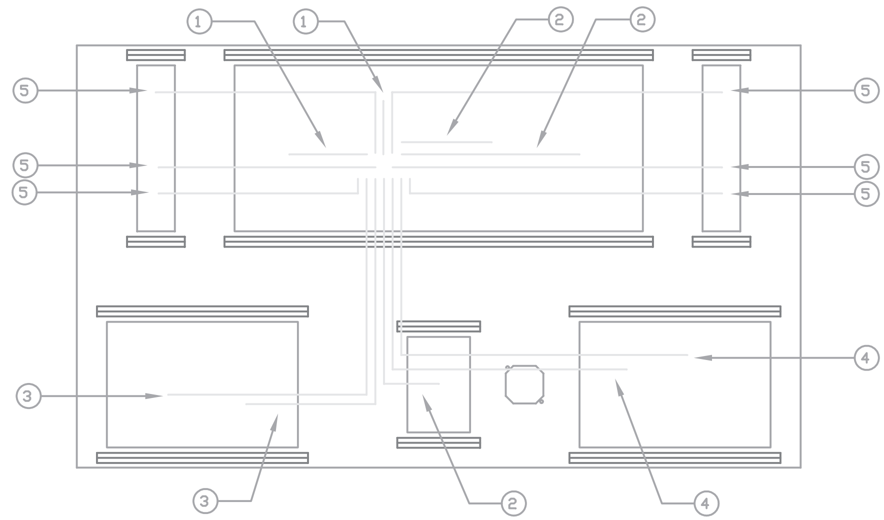
USAGE: NOT FOR CONSTRUCTION

SCALE 1:1 | DRAWN BY JPG | PAGE 1 OF 2

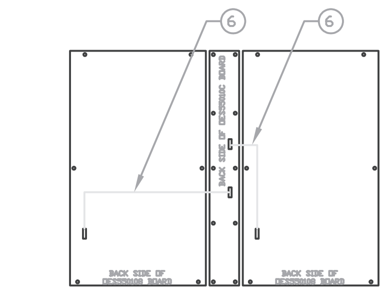

REVISION | DESCRIPTION | AUTH. | DATE | APVD
A | INITIAL DESIGN | | 06/05/02
B | ADDED CONTROLLER CONNECTOR DETAIL | | 06/18/02
C | UPDATE | | 02/17/03
D | CHANGE TO DES8011 | | 04/10/03
E | UL CHANGES | | 05/06/05
120VAC
L
N
0140
24VDC
+
-
0110
MOTHERBOARD
5
GND J43
COM
+5V
+V
COM J49
+V
COM J50
+V
COM J51
+V
COM J53
+V
CABLE 8001000-024 (TIME MINUTES TENS)
CABLE 8001000-024 (TIME MINUTES ONES)
CABLE 8001000-036 (TIME SECONDS TENS)
CABLE 8001000-036 (TIME SECONDS ONES)
CABLE 8001000-036 (PERIOD)
CABLE 8001000-060 (HOME SCORE TENS)
CABLE 8001000-060 (HOME SCORE ONES)
CABLE 8001000-072 (GUEST SCORE TENS)
CABLE 8001001-072 (GUEST SCORE ONES)
CABLE 8001001-048 (GUEST POSSESSION)
CABLE 8001001-048 (GUEST BONUS 1)
CABLE 8001001-048 (GUEST BONUS 2)
CABLE 8001001-048 (HOME POSSESSION)
CABLE 8001001-048 (HOME BONUS 1)
CABLE 8001001-048 (HOME BONUS 2)
1 2 3 4 5 6 7 8 9 10 11 12 13 14
15-01 15-02 15-04 15-08 15-10 15-20 15-40 15-80
12
CONTROLLER CABLE
S SHIELD
4 BLK
3 WHT
2 BLK
1 RED
GND RS- RS+ COM +V
GND J45
NO COM NC
J44 +V COM
TO HORN
REFER TO LINE 0136
ITEM | DESCRIPTION | MFG. | PART # | BIN #
12 | CONTROLLER CABLE | DES | 8001003036 | 8001003036
5 | MOTHERBOARD | DES | DES8011 | DES8011
DES, Inc.
4056 Blakie Road, London, ON N6L 1P7
Tel. (519) 652-5833
Fax. (519) 652-3795
Email oes@oes-inc.com
DESCRIPTION
DES ELECTRONIC SCOREBOARD
MODEL 5240 ELECTRICAL SCHEMATIC
APPROVED BY:
CHECKED BY:
THIRD ANGLE PROJECTIONS
SIZE B
FILENAME 830-5240-005
INIT DRAWING DATE 06/05/2002
REV D
USAGE NOT FOR CONSTRUCTION
SCALE 1:1
DRAWN BY JPG
PAGE 2 OF 2

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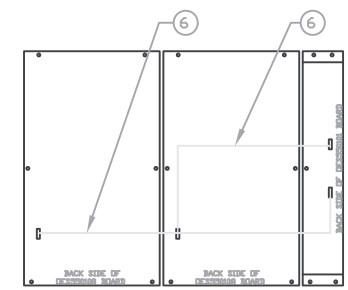
REVISION	DESCRIPTION	AUTH.	DATE	APVD
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B	UPDATE		02/17/03	
C	CHANGE TO DES8011		04/10/03	
D	UL CHANGES		05/06/05	



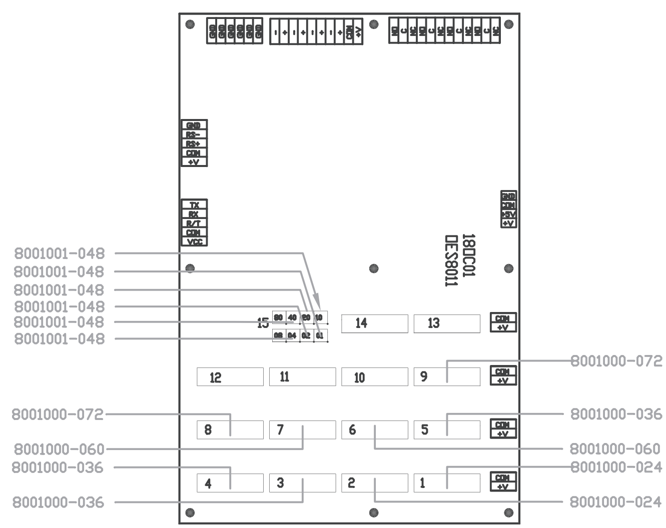
DIGIT WIRE ROUTING DETAILS



DES55010C COLON CONNECTION DETAIL



DES550101 DIGIT CONNECTION DETAIL



MOTHERBOARD CONNECTION DETAILS

NOTE:
SEE ENGINEERING SPECIFICATION FOR 8001000-XXX AND 8001001-XXX CONSTRUCTION

ITEM	QTY	DESCRIPTION	MFG.	PART #
18	6	2 CONDUCTOR COLON WIRE	DES	8001001-024
17	6	2 CONDUCTOR PERIOD WIRE	DES	8001001-048
16	2	10 CONDUCTOR DIGIT WIRE	DES	8001000-072
15	2	10 CONDUCTOR DIGIT WIRE	DES	8001000-060
14	3	10 CONDUCTOR DIGIT WIRE	DES	8001000-036
13	2	10 CONDUCTOR DIGIT WIRE	DES	8001000-024

APPROVED BY:
CHECKED BY:
THIRD ANGLE PROJECTIONS

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DESCRIPTION: DES ELECTRONIC SCOREBOARD 5240 DIGIT WIRE DETAILS

SIZE	FILENAME	INIT DRAWING DATE	REV
B	830-5240-002	06/04/2002	C

USAGE: NOT FOR CONSTRUCTION

SCALE 1:1 | DRAWN BY JPG | PAGE 1 OF 1

ISC85X Intelligent Controller



INTRODUCTION:

The ISC85x controller comes ready to use; no setup required. All settings are pre-set at the factory to the customer requirements. The settings can be accessed by the operator if necessary. There are a number of configure / set-up features within the controller. These features include: Turning the scoreboard off/on, setting up the sport and features of the scoreboard, setting the time of day (TOD), setting the contrast on the controller LCD display, and running the scoreboard through a system of tests.

NOTE: These configure features, including this instruction sheet, should be kept from the standard user and only made available to the person in charge of the scoreboard system.

OPERATION:

To enter into configure mode on the controller:

- Turn on controller.
- Turn RUN/STOP switch to STOP position.
- Press and hold the bottom button in the fifth column on the keypad until the configure menu appears (Button to the left of CLEAR). This button may be blank or may be labeled “CONFIG” or “SETUP”.
- Select desired option using the numeric keypad.

OPTIONS:

1. Board Off/On:

- This blanks the entire scoreboard. This is only required on a few baseball scoreboard models, since the majority will blank on their own 15 seconds after the last communications for the controller.

2. Select Sport/Features:

- The first screen selects the sport, follow on screen instructions.

MODEL 52xx SYSTEM NOTE:
basketball, volley ball, and wrestling are valid selections.

MODEL 62xx SYSTEM NOTE:
Hockey is only valid selection.

ISC85X Intelligent Controller

The next screen selects the features.
- '0' indicates disabled
- '1' indicates enabled
- 'X' means '0' or '1' will depend on the system
  (Contact factory if clarification is required.)

Basketball	5200	5210	5240
Time Out Left	0	0	0
Team Fouls	0	1	0
Player Fouls	0	0	0
Last Foul	0	1	0
Shoot Clocks	X	X	X

Hockey	6200 / 6220	6210 / 6225	6240
Shots On Goal	0	0	0
Penaltys	1	1	1
Time	1	1	0
Player	1	0	0
Shot Clocks	X	X	X
Shift Timer	X	X	X
Motherboard Filler	X	X	X

Follow on screen instructions to properly set-up features

NOTE: Improper settings will result in the scoreboard operating and displaying undesirably.

3. TOD

- This sets up the time of day on the clocks in the scoreboard system.
- Ensure all clocks that need to receive this setting are on and attached to the controller through the communication network.
- Follow on screen instructions to properly set-up TOD.

4. Contrast

- This controls the brightness / contrast of the LCD on the controller.
- Follow on screen instructions to properly set-up the contrast.

5. Board Test:

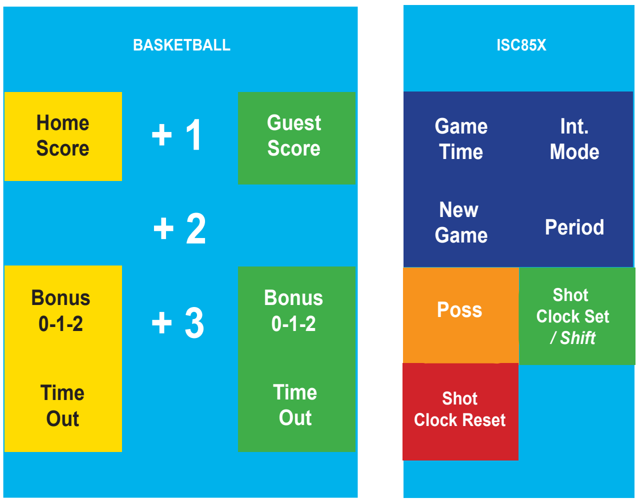
- This will test the scoreboard digits.
  The first test, All On, turns on everything
  The other test, Rotate, has all digits counting from 0-9, then blank
- These tests continue until you exit from the screen and then will return to the game displays.
- Follow on screen instructions to control the tests.

6. Exit

- This exits the configure screens without any changes.

ISC85X Intelligent Controller

5240 Instructions



1. **START/STOP** the clock:
   - Flip switch ON/OFF (Rocker switch on the right side of the unit.)

2. Manual **HORN**:
   - Activate by pressing the push button switch on the right side of the unit.

3. Automatic **HORN**:
   - Horn sounds automatically when time hits 0:00.
   - Horn will sound for 1.5 seconds.

4. To set **TIME**:
   - Press GAME TIME.
   - Enter "minutes" on the numeric keypad. Press Enter.
   - Enter "seconds" on the numeric keypad. Press Enter.
   - Enter "tenths of seconds" on the numeric keypad. Press Enter.
   - When pressed at the end of the period, the last entered time will appear and the period will automatically increment.

5. To set **TIME OUT/INTERMISSION** timer:
   - Press INT. MODE.
   - Enter "minutes" on the numeric keypad. Press Enter.
   - Enter "seconds" on the numeric keypad. Press Enter.
   - To exit this mode, press INT. MODE again.

6. To set **PERIOD/QUARTER**:
   - Press PERIOD.
   - Enter period on the numeric keypad. Press Enter.

7. To set **SCORES**:
   - Press HOME SCORE or GUEST SCORE.
   - Enter score on numeric keypad. Press Enter.

8. To **INCREMENT SCORES**:
   - Press HOME SCORE or GUEST SCORE.
   - Then press: +1,+2, or +3.

9. To toggle **POSSESSION** between HOME/GUEST:
   - Press POSS.

10. To toggle between **"BONUS"**: No Bonus (0); Single Bonus (1); and Double Bonus (2).
    - Press HOME BONUS or GUEST BONUS.

11. To set TIME OUT
    - Press HOME TIME OUT or GUEST TIME OUT.
    - Toggles On or Off.

12. (Optional) To set **Shot Clock**:
    - Press SHOT CLOCK SET.
    - Enter "shot clock" length on the numeric keypad. Press Enter.
    - **NOTE:** if not using the shot clock, set the shot clock time to zero.

13. (Optional) To Reset **Shot Clock**:
    - Press SHOT CLOCK RESET.

14. To set **SHIFT TIMER (IF ENABLED)**:

    NOTE: The ***SHIFT TIMER*** counts down from the set amount. When the ***SHIFT TIMER*** is expired a one second horn will sound, then the ***SHIFT TIMER*** will reset and start counting down again.

    •***Press SHIFT.***
    •Enter the shift time settings in minutes using the numeric keypad. ***Press ENTER.***
    •To edit the current running shift time ***Press SHIFT***. Then ***SHIFT*** again. Enter the minutes using the numeric keypad.***Press ENTER.***Enter the seconds using the numeric keypad.***Press ENTER.***

    NOTE: On power up, the shift time will be 0:00, which leaves it in an inactive mode which means no horns will sound.